

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

**Attorney Docket No. 071815/478**

**In re reissue patent application of**

**Richard E. SKLAR et al.**

**Serial No: Not yet assigned**

**Application for reissue of U.S. Patent No.  
5,760,819, granted June 2, 1998**

**Filed: Herewith**

**For: DISTRIBUTION OF A LARGE NUMBER OF LIVE TELEVISION  
PROGRAMS TO INDIVIDUAL PASSENGERS IN AN AIRCRAFT**

**ASSENT OF ASSIGNEE**

**Assistant Commissioner for Patents  
Washington, D.C. 20231**

**Sir:**

The undersigned assignee of the entire right, title and interest to the United States Letters Patent 5,760,819 hereby assents to the accompanying reissue application and offers to surrender said Letters Patent.

**Date: May 22, 2000**

**Name: Thomas G. Manor**

**Title: Assistant Secretary**

**Signature: Thomas G. Manor**

**Foley & Lardner  
3000 K Street, N.W.,  
Washington, D.C. 20007-5109  
Tel: (202) 672-5300**

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

**Attorney Docket No. 071815/478**

**In re reissue patent application of**

**Richard E. SKLAR et al.**

**Serial No: Not yet assigned**

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**For: DISTRIBUTION OF A LARGE NUMBER OF LIVE TELEVISION  
PROGRAMS TO INDIVIDUAL PASSENGERS IN AN AIRCRAFT**

**BROADENING REISSUE DECLARATION**  
**UNDER 37 C.F.R. §1.175**

Assistant Commissioner for Patents  
Washington, D.C. 20231

Sir:

We, Richard Sklar, Lawrence Girard, and Ralph Phillipp declare that:

1. Our residence, post office address and citizenship are stated below next to our names.

2. We believe we are the original and first inventors of the subject matter described and claimed in our U.S. Patent 5,760,819 and in the foregoing specification for which a reissue patent is sought on the invention entitled **DISTRIBUTION OF A LARGE NUMBER OF LIVE TELEVISION PROGRAMS TO INDIVIDUAL PASSENGERS IN AN AIRCRAFT**.

3. We have reviewed and understand the contents of the above-identified specification, including the claims.

4. We acknowledge the duty to disclose information which is material to examination of the application in accordance with 37 C.F.R. §1.56(a).

5. There are no foreign applications or inventors certificates having a filing date before that of the applications on which priority is claimed.

6. We believe U.S. Patent No. 5,760,819 ("the '819 patent") is wholly or partly inoperative or invalid by reason of our claiming less than we had the right to claim in the patent.

7. One specific error was for us not to include claims which recite:

(Reissue claim 10) A satellite television system that provides television channels to each passenger on an aircraft derived from at least one satellite, said system comprising:

(a) an antenna that comprises a steering device for steering the antenna toward the at least one satellite in response to control signals supplied thereto;

(b) an antenna controller to provide the control signals to the antenna and for processing status signals derived from the antenna to steer the antenna so that it is locked onto encoded RF signals transmitted by the satellite, and for downconverting the encoded RF signals to provide downconverted RF signals that correspond to encoded television channels;

(c) a receiver coupled to the antenna controller to process the downconverted RF signals to obtain encoded output signals corresponding to the television channels;

(d) a modulator coupled to the receiver for modulating the encoded output signals to provide modulated and encoded signals;

(e) a distribution system coupled to the modulator for distributing the modulated and encoded signals to each passenger's seat; and

(f) seat electronics circuitry coupled to the distribution system for demodulating, decoding and D/A converting the modulated and encoded signals into signals that are provided to said each passenger's seat.

(Reissue claim 11) The system of claim 10, wherein the downconverted RF signals correspond to left hand and right hand circularly polarized downconverted RF signals.

(Reissue claim 12) A method of providing a plurality of programming channels obtained from at least one satellite, to a plurality of passengers on an aircraft, said method comprising:

- steering an antenna towards the at least one satellite;
- downconverting encoded RF signals transmitted by the at least one satellite to provide encoded, polarized RF signals that correspond to a plurality of encoded programming channels;
- processing the downconverted encoded RF signals to provide encoded video and audio output signals corresponding to the plurality of programming channels;
- modulating the encoded video and audio signals;
- distributing the modulated and encoded video and audio signals to a plurality of passenger seats;
- receiving the modulated and encoded video and audio signals at each of the plurality of passenger seats; and
- demodulating, decoding and D/A converting the modulated and encoded video and audio signals into signals that may be viewed and heard by a passenger at a seat.

9. By this reissue declaration, we desire to seek broadened claims, and, this application for reissue of the original Letters Patent addresses the aforementioned errors in claiming less than we were entitled to claim by including new independent claim 10 which does not specify an unnecessary feature in claim 1 of feeding back status signals using a receiver/decoder, by adding new dependent claim 11 that further defines the downconverted RF signals, and by adding new independent claim 12 that does not specify an unnecessary feature in claim 9 of using a display and headphones and that describes the encoded signals as being left hand and right hand circularly polarized signals. Support for the above amendments and new claims exist in Figure 1 of the Letters Patent and the accompanying description of that figure in the specification.

10. We believe that the errors recited above and being presented for correction in this reissue application arose without any deceptive intention on our part.

WHEREFORE, We pray that we may be allowed to surrender the original Letters Patent 5,760,819 and do hereby offer same.

We hereby appoint Stephen A. Bent, Reg. No. 29,768; David A. Blumenthal, Reg. No. 26,257; William T. Ellis, Reg. No. 26,874; John J. Feldhaus, Reg. No. 28,822; Patricia D. Granados, Reg. No. 33,683; John P. Isacson, Reg. No. 33,715; Peter G. Mack, Reg. No. 26,001; Brian J. McNamara, Reg. No. 32,789; Sybil Meloy, Reg. No. 22,749; George E. Quillin, Reg. No. 32,792; Colin G. Sandercock, Reg. No. 31,298; Bernhard D. Saxe, Reg. No. 28,665; Charles F. Schill, Reg. No. 27,590; Richard L. Schwaab, Reg. No. 25,479; Harold C. Wegner, Reg. No. 25,258, Johnny A. Kumar, Reg. No. 34,649, Phillip J. Articola, Reg. No. 38,819, Joseph N. Ziebert, Reg. No. 35,421, and Kyle Epple, Reg. No. 34,155, as our attorneys with full power of substitution and revocation to prosecute this application and to transact all business in the U.S. Patent and Trademark Office connected herewith, and request that all correspondence be sent to FOLEY & LARDNER, 3000 K Street, N.W., Suite 500, Washington, DC 20007-5109 at (202) 672-5300.

The undersigned petitioners declare further that all statements made herein of their own knowledge are true, and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

**Richard E. Sklar**

Signature: Richard E. Sklar Date: 15 May 2000

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Post Office Address: HUNTINGTON BEACH CA Citizenship: USA  
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**Lawrence E. Girard**

Signature: Lawrence E. Girard Date: 19 May 2000

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Post Office Address: WESTMINSTER Citizenship: US  
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**Ralph P. Phillipp**

Signature: Ralph P. Phillipp Date: 5/19/2000

Residence:

16062 DAVIS LANE

Post Office Address: Huntington Beach, CA Citizenship: USA

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

**Attorney Docket No.: 071815/0478**

In re patent application of:

Richard E. SKLAR et al.

Serial No.: Not yet assigned

**Application for reissue of U.S.**

**Patent No. 5,760,819,**

**granted June 2, 1998**

Filed: Herewith

**For: DISTRIBUTION OF A LARGE NUMBER OF LIVE TELEVISION  
PROGRAMS TO INDIVIDUAL PASSENGERS IN AN AIRCRAFT**

**ASSOCIATE POWER OF ATTORNEY AND CHANGE OF  
CORRESPONDENCE ADDRESS**

Assistant Commissioner for Patents  
Washington, D.C. 20231

Sir:

The undersigned officer of Rockwell International Corporation hereby grants the following attorneys/agents associate power to prosecute the above-identified application and transact all business in the Patent and Trademark Office connected therewith:

Johnny A. Kumar, Reg. No. 34,649; Phillip J. Articola, Reg. No. 38,819; Joseph N. Ziebert, 35,421; other members of the law firm of Foley and Lardner; and Kyle Eppele, Reg. No. 34,155, of Rockwell International Corporation.

It is requested that all future correspondence be mailed to:

Kyle Eppele  
Rockwell International Corporation  
Intellectual Property Division  
400 Collins Road NE, M/S/ 124/323  
Cedar Rapids, Iowa 52498

Respectfully submitted,

Date: May 22, 2000

Name: Thomas G. Manor

Title: Assistant Secretary

Signature: Thomas G. Manor



**PAGE: 1**

PATENT NUMBER: 5760819                      ISSUE DATE: 06/02/98  
SERIAL NUMBER: 08/667225                  FILING DATE: 06/19/96  
TITLE: DISTRIBUTION OF A LARGE NUMBER OF LIVE TELEVISION PROGRAMS TO  
INDIVIDUAL PASSENGERS IN AN AIRCRAFT  
APPLICANT: SKLAR, RICHARD E. ; GIRARD, LAWRENCE E.  
PHILLIPP, RALPH P.

REEL: 008202 FRAME: 0741 DATE RECORDED: 10/31/96 NUMBER OF PAGES: 00  
ASSIGNOR: SKLAR, RICHARD E.  
EXC DATE: 09/27/96  
GIRARD, LAWRENCE E.  
EXC DATE: 09/27/96  
PHILLIPP, RALPH P.  
EXC DATE: 09/27/96

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PAGE: 2

ASSIGNEE: HUGHES ELECTRONICS  
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BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).  
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REEL: 008886 FRAME: 0092 DATE RECORDED: 01/13/98 NUMBER OF PAGES: 01  
ASSIGNOR: HUGHES ELECTRONICS CORPORATION  
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REEL: 008907 FRAME: 0819 DATE RECORDED: 01/13/98 NUMBER OF PAGES: 01  
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PAGE: 6

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REEL: 008907 FRAME: 0892 DATE RECORDED: 01/13/98 NUMBER OF PAGES: 01  
ASSIGNOR: HUGHES ELECTRONICS CORPORATION  
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REEL: 009146 FRAME: 0525 DATE RECORDED: 01/13/98 NUMBER OF PAGES: 01  
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REEL: 009556 FRAME: 0427 DATE RECORDED: 01/13/98 NUMBER OF PAGES: 01  
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ASSIGNEE: ROCKWELL INTERNATIONAL CORPORATION  
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MARCH 19, 1999

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RECORDATION DATE: 01/13/1998

REEL/FRAME: 9614/0073  
NUMBER OF PAGES: 13

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

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DOC DATE: 12/15/1997

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SERIAL NUMBER: 08832149  
PATENT NUMBER:

FILING DATE: 04/02/1997  
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SERIAL NUMBER: 08864596  
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SERIAL NUMBER: 08865815  
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SERIAL NUMBER: 08865776  
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9614/0073 PAGE 2

SERIAL NUMBER: 08865816  
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SERIAL NUMBER: 07686076  
PATENT NUMBER:

FILING DATE: 04/16/1991  
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SERIAL NUMBER: 07673125  
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SERIAL NUMBER: 07579335  
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FILING DATE: 09/06/1990  
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SERIAL NUMBER: 08430006  
PATENT NUMBER:

FILING DATE: 04/26/1995  
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SERIAL NUMBER: 08441144  
PATENT NUMBER:

FILING DATE: 05/15/1995  
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SERIAL NUMBER: 08780558  
PATENT NUMBER: 5808661

FILING DATE: 01/08/1997  
ISSUE DATE: 09/15/1998

SERIAL NUMBER: 08757721  
PATENT NUMBER:

FILING DATE: 11/27/1996  
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SERIAL NUMBER: 08667222  
PATENT NUMBER: 5790175

FILING DATE: 06/19/1996  
ISSUE DATE: 08/04/1998

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PATENT NUMBER: 5760819

FILING DATE: 06/19/1996  
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SERIAL NUMBER: 08667224  
PATENT NUMBER: 5801751

FILING DATE: 06/19/1996  
ISSUE DATE: 09/01/1998

SERIAL NUMBER: 07630713  
PATENT NUMBER: 5123015

FILING DATE: 12/20/1990  
ISSUE DATE: 06/16/1992

SERIAL NUMBER: 07681850  
PATENT NUMBER: 5220419

FILING DATE: 04/08/1991  
ISSUE DATE: 06/15/1993

SERIAL NUMBER: 07681838  
PATENT NUMBER: 5214505

FILING DATE: 04/08/1991  
ISSUE DATE: 05/25/1993

SERIAL NUMBER: 07836683  
PATENT NUMBER: 5289272

FILING DATE: 02/18/1992  
ISSUE DATE: 02/22/1994

SERIAL NUMBER: 07847423  
PATENT NUMBER: 5179447

FILING DATE: 03/05/1992  
ISSUE DATE: 01/12/1993

SERIAL NUMBER: 07524673  
PATENT NUMBER: 5055660

FILING DATE: 05/15/1990  
ISSUE DATE: 10/08/1991

SERIAL NUMBER: 07318592  
PATENT NUMBER: 5057677

FILING DATE: 06/16/1988  
ISSUE DATE: 10/15/1991

PAGE: 11

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REEL: 009614 FRAME: 0073 DATE RECORDED: 01/13/98 NUMBER OF PAGES: 01  
ASSIGNOR: HUGHES ELECTRONICS CORPORATION  
EXC DATE: 12/15/97

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9614/0073 PAGE 3

SERIAL NUMBER: 07908095  
PATENT NUMBER: 5311302

FILING DATE: 07/02/1992  
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SERIAL NUMBER: 07907883  
PATENT NUMBER: 5262762

FILING DATE: 07/02/1992  
ISSUE DATE: 11/16/1993

SERIAL NUMBER: 08054498  
PATENT NUMBER: 5374103

FILING DATE: 04/22/1993  
ISSUE DATE: 12/20/1994

SERIAL NUMBER: 08194559  
PATENT NUMBER: 5467106

FILING DATE: 02/10/1994  
ISSUE DATE: 11/14/1995

SERIAL NUMBER: 08156161  
PATENT NUMBER: 5421530

FILING DATE: 11/23/1993  
ISSUE DATE: 06/06/1995

SHARMALLA COATES, EXAMINER  
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**ASSIGNMENT**Page 1 of 3  
PD-A96005

WHEREAS, I, as below named sole inventor (if only one name is listed below) or joint inventor (if plural names are listed below) of the city and state as stated below next to my name, have invented a(an)

**DISTRIBUTION OF A LARGE NUMBER OF LIVE TELEVISION  
PROGRAMS TO INDIVIDUAL PASSENGERS IN AN AIRCRAFT**

for which application for Letters Patent of the United States has been executed by me on this day, or (if the following is completed) filed on June 19, 1996 as Serial No. 08/667,225; and

WHEREAS, **HE Holdings, Inc., doing business as Hughes Electronics**, (hereinafter referred to as **HUGHES ELECTRONICS**), a Delaware Corporation, having its principal place of business in Los Angeles, California, is desirous of acquiring the entire and exclusive right, title and interest in, to and under said invention, said application and any and all Letters Patent that may be granted therefor in the United States and throughout the world;

NOW, THEREFORE, in consideration of the obligations voluntarily assumed by me and set forth in an invention agreement between me and my employer, effective the date as stated below next to my name, and other good and valuable consideration, receipt of which is hereby acknowledged, I do hereby sell, assign and transfer to **HUGHES ELECTRONICS**, its successors, assigns or other legal representatives, the entire and exclusive right, title and interest in and to said invention invented by me, to said application and any and all applications which are continuations, continuations-in-part, divisions or substitutes of said application and any and all Letters Patent that may be granted therefor in the United States and throughout the world on any of said applications and to any and all reexaminations, reissues, renewals or extensions of said Letters Patent in the United States and throughout the world for the full term or terms for which said Letters patent may be granted in the United States and throughout the world; authorize and request The Commissioner of Patents and Trademarks of the United States and all foreign countries to issue all such Letters Patent to said **HUGHES ELECTRONICS**, its successors, assigns or other legal representatives; covenant that no assignment, sale, agreement, transfer or encumbrance has been, or will be, made or entered into which would conflict with this assignment, sale and transfer; and agree to communicate to **HUGHES ELECTRONICS**, its successors, assigns or other legal representatives, upon request and at no cost or expense to me, any facts known by me respecting said invention, do all lawful acts, including the execution and delivery of all papers and proper oaths and giving of testimony that is deemed necessary or desirable by **HUGHES ELECTRONICS**, its successors, assigns or other legal representatives with regard to said invention for protecting, obtaining, maintaining and enforcing any and all of said Letters Patent in the United States and throughout the world for said invention and for perfecting, affirming, recording and maintaining the title of **HUGHES ELECTRONICS**, its successors, assigns or other legal representatives, and generally cooperate to the fullest extent in all matters pertaining to said invention, and any and all of said Letters Patent and the title thereto in **HUGHES ELECTRONICS**, its successors, assigns or other legal representatives.

IN WITNESS WHEREOF, I have executed this instrument.

FULL NAME OF SOLE OR JOINT INVENTOR Richard E. Sklar	INVENTOR'S SIGNATURE <i>Richard E. Sklar</i>	DATE 9/27/96
RESIDENCE (CITY AND STATE) Huntington Beach, California		INVENTION AGREEMENT DATE January 23, 1967
FULL NAME OF SOLE OR JOINT INVENTOR Lawrence E. Girard	INVENTOR'S SIGNATURE <i>Lawrence E. Girard</i>	DATE 9/27/96
RESIDENCE (CITY AND STATE) Westminster, California		INVENTION AGREEMENT DATE January 17, 1977
FULL NAME OF SOLE OR JOINT INVENTOR Ralph P. Phillipp	INVENTOR'S SIGNATURE <i>Ralph P. Phillipp</i>	DATE 9/27/96
RESIDENCE (CITY AND STATE) Huntington Beach, California		INVENTION AGREEMENT DATE January 8, 1996
FULL NAME OF SOLE OR JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
RESIDENCE (CITY AND STATE)		INVENTION AGREEMENT DATE
FULL NAME OF SOLE OR JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
RESIDENCE (CITY AND STATE)		INVENTION AGREEMENT DATE

STATE OF CALIFORNIA )

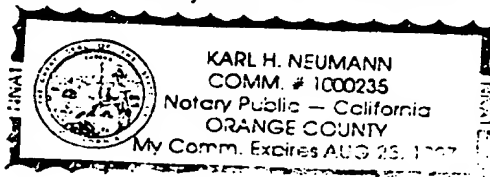
COUNTY OF Los Angeles )

SS:

On Sept. 27, 1996 before me, KARL H. NEUMANN  
a Notary Public in and for said State, personally appeared RICHARD E. SKLAR

☐ personally known to me or ☒ proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.



Notary Public

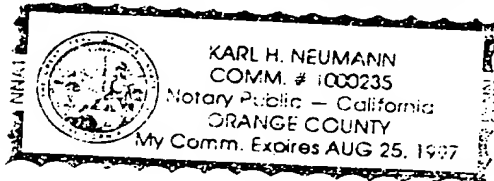
*Karl H. Neumann*

STATE OF CALIFORNIA )  
COUNTY OF Los Angeles ) SS:

On Sept. 27, 1996 before me, KARL H. NEUMANN  
a Notary Public in and for said State, personally appeared RALPH T. PHILLIP

☐ personally known to me or ☒ proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is / are subscribed to the within instrument and acknowledged to me that he / she / they executed the same in his / her / their authorized capacity(ies), and that by his / her / their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.



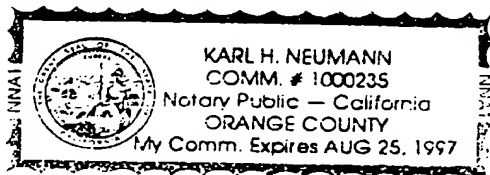
Notary Public Karl H. Neumann

STATE OF CALIFORNIA )  
COUNTY OF Los Angeles ) SS:

On Sept. 27, 1996 before me, KARL H. NEUMANN  
a Notary Public in and for said State, personally appeared LAWRENCE E. GIRARD

☐ personally known to me or ☒ proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is / are subscribed to the within instrument and acknowledged to me that he / she / they executed the same in his / her / their authorized capacity(ies), and that by his / her / their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.



Notary Public Karl H. Neumann

STATE OF \_\_\_\_\_ )  
COUNTY OF \_\_\_\_\_ ) SS:

On \_\_\_\_\_ before me, \_\_\_\_\_  
a Notary Public in and for said State, personally appeared \_\_\_\_\_

☐ personally known to me or ☐ proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is / are subscribed to the within instrument and acknowledged to me that he / she / they executed the same in his / her / their authorized capacity(ies), and that by his / her / their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.

Notary Public \_\_\_\_\_